

Rudolf J J Schneider

List of Publications by Year in descending order

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123
papers

4,221
citations

101384

36
h-index

128067

60
g-index

129
all docs

129
docs citations

129
times ranked

5358
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of Antibiotic Residues in Manure, Soil, and Surface Waters. <i>Clean - Soil, Air, Water</i> , 2003, 31, 36-44.	0.8	442
2	Ferromagnetic order in epitaxially strained LaCoO ₃ thin films. <i>Physical Review B</i> , 2007, 75, .	1.1	198
3	Carbamazepine and its metabolites in wastewater: Analytical pitfalls and occurrence in Germany and Portugal. <i>Water Research</i> , 2014, 57, 104-114.	5.3	190
4	Presence of the pharmaceutical drug carbamazepine in coastal systems: Effects on bivalves. <i>Aquatic Toxicology</i> , 2014, 156, 74-87.	1.9	140
5	Effects of organic and inorganic amendments on soil organic matter properties. <i>Geoderma</i> , 2009, 150, 38-45.	2.3	118
6	Degradation of carbamazepine in environmentally relevant concentrations in water by Hydrodynamic-Acoustic-Cavitation (HAC). <i>Water Research</i> , 2012, 46, 2469-2477.	5.3	114
7	Field study using two immunoassays for the determination of estradiol and ethinylestradiol in the aquatic environment. <i>Water Research</i> , 2006, 40, 2287-2294.	5.3	109
8	Immunoassays as high-throughput tools: Monitoring spatial and temporal variations of carbamazepine, caffeine and cetirizine in surface and wastewaters. <i>Chemosphere</i> , 2012, 89, 1278-1286.	4.2	96
9	Functionalized magnetic nanoparticles: Synthesis, characterization, catalytic application and assessment of toxicity. <i>Scientific Reports</i> , 2018, 8, 6278.	1.6	95
10	Monitoring carbamazepine in surface and wastewaters by an immunoassay based on a monoclonal antibody. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 1809-1820.	1.9	84
11	The impacts of pharmaceutical drugs under ocean acidification: New data on single and combined long-term effects of carbamazepine on <i>Scrobicularia plana</i> . <i>Science of the Total Environment</i> , 2016, 541, 977-985.	3.9	80
12	Caffeine impacts in the clam <i>Ruditapes philippinarum</i> : Alterations on energy reserves, metabolic activity and oxidative stress biomarkers. <i>Chemosphere</i> , 2016, 160, 95-103.	4.2	77
13	The effects of carbamazepine on macroinvertebrate species: Comparing bivalves and polychaetes biochemical responses. <i>Water Research</i> , 2015, 85, 137-147.	5.3	74
14	Physiological and biochemical alterations induced in the mussel <i>Mytilus galloprovincialis</i> after short and long-term exposure to carbamazepine. <i>Water Research</i> , 2017, 117, 102-114.	5.3	71
15	Application of an ELISA to the quantification of carbamazepine in ground, surface and wastewaters and validation with LC-MS/MS. <i>Chemosphere</i> , 2011, 84, 1708-1715.	4.2	70
16	Chronic toxicity of the antiepileptic carbamazepine on the clam <i>Ruditapes philippinarum</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2015, 172-173, 26-35.	1.3	64
17	Modified paramagnetic beads in a microfluidic system for the determination of ethinylestradiol (EE2) in river water samples. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1376-1381.	5.3	60
18	Novel Electrochemical Paper-Based Immunocapture Assay for the Quantitative Determination of Ethinylestradiol in Water Samples. <i>Analytical Chemistry</i> , 2018, 90, 4104-4111.	3.2	60

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19	Antibodies armed with photosensitizers: from chemical synthesis to photobiological applications. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2518-2529.	1.5	55
20	Photodegradation of organic pollutants in water by immobilized porphyrins and phthalocyanines. <i>Journal of Porphyrins and Phthalocyanines</i> , 2016, 20, 150-166.	0.4	54
21	Influence of different organic amendments on the potential availability of metals from soil: A study on metal fractionation and extraction kinetics by EDTA. <i>Chemosphere</i> , 2010, 78, 389-396.	4.2	53
22	Long-term exposure to caffeine and carbamazepine: Impacts on the regenerative capacity of the polychaete <i>Diopatra neapolitana</i> . <i>Chemosphere</i> , 2016, 146, 565-573.	4.2	53
23	Sorption and Desorption Behavior of Atrazine on Soils Subjected to Different Organic Long-Term Amendments. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 3101-3106.	2.4	52
24	Development of ELISA methodologies for the direct determination of 17 β -estradiol and 17 β -ethinylestradiol in complex aqueous matrices. <i>Journal of Environmental Management</i> , 2013, 124, 121-127.	3.8	52
25	Toxic effects of the antihistamine cetirizine in mussel <i>Mytilus galloprovincialis</i> . <i>Water Research</i> , 2017, 114, 316-326.	5.3	52
26	Electrochemical detection of a powerful estrogenic endocrine disruptor: Ethinylestradiol in water samples through bioseparation procedure. <i>Analytica Chimica Acta</i> , 2012, 723, 27-32.	2.6	48
27	Liquid chromatography-tandem mass spectrometry detection of diclofenac and related compounds in water samples. <i>Journal of Chromatography A</i> , 2018, 1538, 112-116.	1.8	46
28	How life history influences the responses of the clam <i>Scrobicularia plana</i> to the combined impacts of carbamazepine and pH decrease. <i>Environmental Pollution</i> , 2015, 202, 205-214.	3.7	45
29	A highly sensitive caffeine immunoassay based on a monoclonal antibody. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 2617-2628.	1.9	43
30	Porphyrin conjugated with serum albumins and monoclonal antibodies boosts efficiency in targeted destruction of human bladder cancer cells. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 1804.	1.5	41
31	Long-term exposure of polychaetes to caffeine: Biochemical alterations induced in <i>Diopatra neapolitana</i> and <i>Arenicola marina</i> . <i>Environmental Pollution</i> , 2016, 214, 456-463.	3.7	40
32	Enantiomeric separation of metolachlor and its metabolites using LC-MS and CZE. <i>Chemosphere</i> , 2006, 62, 1591-1599.	4.2	39
33	Effects of carbamazepine and cetirizine under an ocean acidification scenario on the biochemical and transcriptome responses of the clam <i>Ruditapes philippinarum</i> . <i>Environmental Pollution</i> , 2018, 235, 857-868.	3.7	39
34	Factors influencing the adsorption of atrazine on montmorillonitic and kaolinitic clays. <i>Science of the Total Environment</i> , 1993, 138, 317-328.	3.9	38
35	Direct sub-ppt detection of the endocrine disruptor ethinylestradiol in water with a chemiluminescence enzyme-linked immunosorbent assay. <i>Analytica Chimica Acta</i> , 2005, 551, 92-97.	2.6	37
36	Green Fenton-like magnetic nanocatalysts: Synthesis, characterization and catalytic application. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 667-677.	10.8	36

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37	Effects of single and combined exposure of pharmaceutical drugs (carbamazepine and cetirizine) and a metal (cadmium) on the biochemical responses of <i>R. philippinarum</i> . <i>Aquatic Toxicology</i> , 2018, 198, 10-19.	1.9	35
38	A novel enzyme-linked immunosorbent assay for ethynylestradiol using a long-chain biotinylated EE2 derivative. <i>Steroids</i> , 2004, 69, 245-253.	0.8	34
39	Multifunctional Logic in a Photosensitizer with Triple-Mode Fluorescent and Photodynamic Activity. <i>Chemistry - A European Journal</i> , 2015, 21, 18551-18556.	1.7	34
40	Comparison of the toxicological impacts of carbamazepine and a mixture of its photodegradation products in <i>Scrobicularia plana</i> . <i>Journal of Hazardous Materials</i> , 2017, 323, 220-232.	6.5	33
41	Singlet oxygen generation potential of porphyrin-sensitized magnetite nanoparticles: Synthesis, characterization and photocatalytic application. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 553-561.	10.8	33
42	Microfluidic electrochemical immunosensor for the trace analysis of cocaine in water and body fluids. <i>Drug Testing and Analysis</i> , 2019, 11, 492-500.	1.6	29
43	Analysis and Detection of the Herbicides Dimethenamid and Flufenacet and Their Sulfonic and Oxanilic Acid Degradates in Natural Water. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 1045-1052.	2.4	27
44	Application of fluorescence polarization immunoassay for determination of carbamazepine in wastewater. <i>Journal of Environmental Management</i> , 2017, 193, 92-97.	3.8	27
45	Hediste diversicolor as bioindicator of pharmaceutical pollution: Results from single and combined exposure to carbamazepine and caffeine. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2016, 188, 30-38.	1.3	26
46	Environmental immunoassays. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 375, 44-46.	1.9	25
47	Sorption behavior of EE2 on soils subjected to different long-term organic amendments. <i>Science of the Total Environment</i> , 2012, 423, 120-124.	3.9	24
48	Fluorescence Polarization Immunoassays for the Quantification of Caffeine in Beverages. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 2337-2343.	2.4	24
49	Evaluation of the anthropogenic input of caffeine in surface waters of the north and center of Portugal by ELISA. <i>Science of the Total Environment</i> , 2014, 479-480, 227-232.	3.9	24
50	Ecotoxicity of the antihistaminic drug cetirizine to <i>Ruditapes philippinarum</i> clams. <i>Science of the Total Environment</i> , 2017, 601-602, 793-801.	3.9	24
51	Porphyrin modified trastuzumab improves efficacy of HER2 targeted photodynamic therapy of gastric cancer. <i>International Journal of Cancer</i> , 2017, 141, 1478-1489.	2.3	24
52	Quality assurance in immunoassay performance—comparison of different enzyme immunoassays for the determination of caffeine in consumer products. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1601-1611.	1.9	23
53	Application of dispersive liquid-liquid microextraction for estrogens ³ quantification by enzyme-linked immunosorbent assay. <i>Talanta</i> , 2014, 125, 102-106.	2.9	23
54	Hybrid iron-based core-shell magnetic catalysts for fast degradation of bisphenol A in aqueous systems. <i>Chemical Engineering Journal</i> , 2016, 302, 587-594.	6.6	23

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55	Ultra-sonication of ZIF-67 Crystals Results in ZIF-67 Nano-Flakes. <i>ChemistrySelect</i> , 2016, 1, 5905-5908.	0.7	23
56	Toxicity associated to uptake and depuration of carbamazepine in the clam <i>Scrobicularia plana</i> under a chronic exposure. <i>Science of the Total Environment</i> , 2017, 580, 1129-1145.	3.9	23
57	Wash-Free Multiplexed Mix-and-Read Suspension Array Fluorescence Immunoassay for Anthropogenic Markers in Wastewater. <i>Analytical Chemistry</i> , 2019, 91, 12988-12996.	3.2	23
58	Multifunctional Polystyrene Core/Silica Shell Microparticles with Antifouling Properties for Bead-Based Multiplexed and Quantitative Analysis. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1321-1334.	4.0	23
59	Can ocean warming alter sub-lethal effects of antiepileptic and antihistaminic pharmaceuticals in marine bivalves?. <i>Aquatic Toxicology</i> , 2021, 230, 105673.	1.9	23
60	Quality assurance in immunoassay performance-temperature effects. <i>Analytical Methods</i> , 2012, 4, 901.	1.3	22
61	Screening and Monitoring of Herbicides Behaviour in Soils by Enzyme Immunoassays. <i>International Journal of Environmental Analytical Chemistry</i> , 1992, 46, 129-140.	1.8	21
62	Effects of the antimicrobial agent sulfamethazine on metolachlor persistence and sorption in soil. <i>Chemosphere</i> , 2006, 63, 1539-1545.	4.2	21
63	Quantification of cells with specific phenotypes I: Determination of CD4+ cell count per microliter in reconstituted lyophilized human PBMC prelabeled with anti-CD4 FITC antibody. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015, 87, 244-253.	1.1	21
64	Catalytical degradation of relevant pollutants from waters using magnetic nanocatalysts. <i>Applied Surface Science</i> , 2015, 352, 42-48.	3.1	21
65	Structural considerations on the selectivity of an immunoassay for sulfamethoxazole. <i>Talanta</i> , 2016, 158, 198-207.	2.9	21
66	Fluorescence polarization immunoassay for the determination of diclofenac in wastewater. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 999-1007.	1.9	21
67	Triacetone Triperoxide (TATP): Hapten Design and Development of Antibodies. <i>Langmuir</i> , 2010, 26, 15418-15423.	1.6	20
68	Nanomagnet-photosensitizer hybrid materials for the degradation of 17 β -estradiol in batch and flow modes. <i>Dyes and Pigments</i> , 2017, 142, 535-543.	2.0	20
69	Cetirizine as pH-dependent cross-reactant in a carbamazepine-specific immunoassay. <i>Analyst</i> , The, 2011, 136, 1357.	1.7	19
70	Development of an ELISA procedure to study sorption of atrazine onto a sewage sludge-amended luvisol soil. <i>Talanta</i> , 2011, 85, 1494-1499.	2.9	18
71	Maintaining Stable Zeolitic Imidazolate Framework (ZIF) Templates during Polyelectrolyte Multilayer Coating. <i>Colloids and Interface Science Communications</i> , 2018, 22, 14-17.	2.0	18
72	Effect of long term organic amendments on adsorption-desorption of thiram onto a luvisol soil derived from loess. <i>Chemosphere</i> , 2010, 80, 293-300.	4.2	16

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73	Hapten-Specific Single-Cell Selection of Hybridoma Clones by Fluorescence-Activated Cell Sorting for the Generation of Monoclonal Antibodies. <i>Analytical Chemistry</i> , 2017, 89, 4007-4012.	3.2	16
74	Development of a latex particles-based lateral flow immunoassay for group determination of macrolide antibiotics in breast milk. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 189, 113450.	1.4	16
75	A heterogeneous immunoassay for the determination of triazine herbicides in water. <i>Fresenius' Journal of Analytical Chemistry</i> , 1991, 339, 468-469.	1.5	15
76	Tannic acid- and natural organic matter-coated magnetite as green Fenton-like catalysts for the removal of water pollutants. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	15
77	Removal of pollutants by the new Fenton-like highly active catalysts containing an imidazolium salt and a Schiff base. <i>Applied Catalysis B: Environmental</i> , 2016, 183, 335-342.	10.8	15
78	Fluorescence polarization immunoassays for carbamazepine – comparison of tracers and formats. <i>Analytical Methods</i> , 2015, 7, 5854-5861.	1.3	14
79	Ethinylestradiol quantification in drinking water sources using a fluorescent paper based immunosensor. <i>Microchemical Journal</i> , 2018, 141, 287-293.	2.3	14
80	Comparative characterization of mAb producing hapten-specific hybridoma cells by flow cytometric analysis and ELISA. <i>Journal of Immunological Methods</i> , 2014, 413, 45-56.	0.6	13
81	087 Identification of two triazine herbicides in top soil layers using immunoassays of different selectivity. <i>Fresenius' Journal of Analytical Chemistry</i> , 1992, 343, 145-146.	1.5	12
82	Capillary zone electrophoresis of Cowpea mosaic virus and peak identification. <i>Electrophoresis</i> , 2009, 30, 1572-1578.	1.3	12
83	Quantification of cells with specific phenotypes II: Determination of CD4 expression level on reconstituted lyophilized human PBMC labelled with anti-CD4 FITC antibody. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015, 87, 254-261.	1.1	12
84	Improved strategies for selection and characterization of new monoclonal anti-carbamazepine antibodies during the screening process using feces and fluorescence polarization immunoassay. <i>Analytical Methods</i> , 2016, 8, 6883-6894.	1.3	12
85	Impaired gonadal and somatic development corroborate vulnerability differences to the synthetic estrogen ethinylestradiol among deeply diverged anuran lineages. <i>Aquatic Toxicology</i> , 2016, 177, 503-514.	1.9	12
86	Screening for cocaine on Euro banknotes by a highly sensitive enzyme immunoassay. <i>Talanta</i> , 2017, 165, 619-624.	2.9	12
87	Covalently Fluorophore-Functionalized ZIF-8 Colloidal Particles as a Sensing Platform for Endocrine-Disrupting Chemicals Such as Phthalates Plasticizers. <i>ACS Omega</i> , 2019, 4, 17090-17097.	1.6	12
88	Automated lab-on-valve sequential injection ELISA for determination of carbamazepine. <i>Analytica Chimica Acta</i> , 2019, 1076, 91-99.	2.6	11
89	Quality assurance in immunoassay performance – carbamazepine immunoassay format evaluation and application on surface and waste water. <i>Analytical Methods</i> , 2013, 5, 3754.	1.3	10
90	Photoinduced Cross-Linking of Short Furan-Modified DNA on Surfaces. <i>Langmuir</i> , 2017, 33, 1197-1201.	1.6	10

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91	Antibody conjugation to carboxyl-modified microspheres through N-hydroxysuccinimide chemistry for automated immunoassay applications: A general procedure. PLoS ONE, 2019, 14, e0218686.	1.1	10
92	A rapid magnetic bead-based immunoassay for sensitive determination of diclofenac. Analytical and Bioanalytical Chemistry, 2022, 414, 1563-1573.	1.9	10
93	Electrochemical Immunomagnetic Ochratoxin A Sensing: Steps Forward in the Application of 3,3',5,5'-Tetramethylbenzidine in Amperometric Assays. ChemElectroChem, 2021, 8, 2597-2606.	1.7	9
94	ELISA as an effective tool to determine spatial and seasonal occurrence of emerging contaminants in the aquatic environment. Analytical Methods, 2020, 12, 2517-2526.	1.3	8
95	Immunosensor based on porous gold and reduced graphene platform for the determination of EE2 by electrochemical impedance spectroscopy. Journal of Electroanalytical Chemistry, 2021, 897, 115604.	1.9	8
96	Responses of Ruditapes philippinarum to contamination by pharmaceutical drugs under ocean acidification scenario. Science of the Total Environment, 2022, 824, 153591.	3.9	8
97	Photocatalysis of β -cyclodextrin-functionalised Fe ₃ O ₄ nanoparticles for degrading Bisphenol A in polluted waters. Environmental Chemistry, 2019, 16, 125.	0.7	7
98	Salinity-dependent impacts on the effects of antiepileptic and antihistaminic drugs in Ruditapes philippinarum. Science of the Total Environment, 2022, 806, 150369.	3.9	7
99	Environmental analysis. Fresenius' Journal of Analytical Chemistry, 1990, 337, 73-78.	1.5	6
100	Enzyme-linked immunosorbent assay (ELISA) for the anthropogenic marker isolithocholic acid in water. Journal of Environmental Management, 2016, 182, 612-619.	3.8	6
101	Decoration of trastuzumab with short oligonucleotides: synthesis and detailed characterization. Organic and Biomolecular Chemistry, 2017, 15, 8923-8928.	1.5	6
102	Development of a Lateral Flow Immunoassay (LFIA) to Screen for the Release of the Endocrine Disruptor Bisphenol A from Polymer Materials and Products. Biosensors, 2021, 11, 231.	2.3	6
103	Non-invasive monitoring of immunization progress in mice via IgG from feces. In Vivo, 2012, 26, 63-9.	0.6	6
104	Monitoring Caffeine in Human Saliva Using a Newly Developed ELISA. Analytical Letters, 2012, 45, 2549-2561.	1.0	5
105	Development of an enzyme-linked immunosorbent assay for atrazine monitoring in water samples. Environmental Science and Pollution Research, 2013, 20, 3157-3164.	2.7	5
106	Polyclonal Murine and Rabbit Antibodies for the Bile Acid Isolithocholic Acid. Journal of Immunoassay and Immunochemistry, 2015, 36, 233-252.	0.5	5
107	Thin films containing oxalate-capped iron oxide nanomaterials deposited on glass substrate for fast Fenton degradation of some micropollutants. Environmental Science and Pollution Research, 2018, 25, 6802-6813.	2.7	5
108	Antimicrobial Photodynamic Activity of Cationic Nanoparticles Decorated with Glycosylated Photosensitizers for Water Disinfection. ChemPhotoChem, 2018, 2, 596-605.	1.5	5

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109	Studies on the development of antibodies for the highly hydrophobic plasticizers DINCH and DEHT. <i>Analytical Biochemistry</i> , 2018, 543, 90-96.	1.1	5
110	Tailored Mobility in a Zeolite Imidazolate Framework (ZIF) Antibody Conjugate**. <i>Chemistry - A European Journal</i> , 2021, 27, 9414-9421.	1.7	5
111	PAWG Pilot Study on Quantification of SARS-CoV-2 Monoclonal Antibody - Part 1. <i>Metrologia</i> , 2022, 59, 08001.	0.6	4
112	Synthetic Strategies for the Modification of Diclofenac. <i>Synlett</i> , 2017, 28, 1984-1989.	1.0	3
113	Pitfalls in the Immunochemical Determination of β -Lactam Antibiotics in Water. <i>Antibiotics</i> , 2021, 10, 298.	1.5	3
114	Transcriptomics and protein biomarkers reveal the detoxifying mechanisms of UV radiation for nebevivolol toward zebrafish (<i>Danio rerio</i>) embryos/larvae. <i>Aquatic Toxicology</i> , 2022, 249, 106241.	1.9	3
115	7-(5-Carboxypentyl)-1,3-dimethylxanthine monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o3718-o3718.	0.2	2
116	LC-ELISA as a contribution to the assessment of matrix effects with environmental water samples in an immunoassay for estrone (E1). <i>Accreditation and Quality Assurance</i> , 2018, 23, 349-364.	0.4	2
117	An Anticaffeine Antibody-Oligonucleotide Conjugate for DNA-Directed Immobilization in Environmental Immunoarrays. <i>Langmuir</i> , 2018, 34, 14834-14841.	1.6	2
118	Balancing the Fate of Terbutylazine in a Water Catchment Area by Immunochemical Screening. <i>International Journal of Environmental Analytical Chemistry</i> , 1998, 70, 59-74.	1.8	1
119	Chapter 3. The Chemistry of Caffeine. <i>Food and Nutritional Components in Focus</i> , 2012, , 41-52.	0.1	1
120	Chapter 12. Analysis of Caffeine by Immunoassay. <i>Food and Nutritional Components in Focus</i> , 2012, , 213-229.	0.1	0
121	Optimization and Evaluation of a Hapten Microarray Using Chemometric Methods. <i>Procedia Engineering</i> , 2015, 120, 501-506.	1.2	0
122	Mit dem Testsystem zur Probe. <i>Nachrichten Aus Der Chemie</i> , 2021, 69, 71-74.	0.0	0
123	CCQM-K126: low polarity organic in water: carbamazepine in surface water. <i>Metrologia</i> , 2017, 54, 08030-08030.	0.6	0